

SEVERE LOCAL STORMS, JULY, 1930

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path, yards ¹	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Devol, Okla.	1	7:15 a. m.	300		\$2,000	Wind	Property, other than crops, damaged; 1 person injured; path 400 yards long.	Official, U. S. Weather Bureau.
Raton, N. Mex., and vicinity.	1	1-3 p. m.	1-3 mi.		12,000	Hail	Roofs, windows, auto tops, and crops severely damaged.	Do.
Baileyville, Kans. (near)	3	5:30 a. m.	1,500			Hail	Roofs pierced; trees stripped; path 4 miles long.	Do.
Findlay, Ohio	4					Probably tornado.	Buildings and trees damaged.	Do.
Grundy County, Iowa	5	3 a. m.	2 mi.		3,000	Hail	Character of damage not reported; path 5 miles long.	Do.
Linn County, Iowa	5	4 a. m.	880		1,500	Hail and rain	No details reported; path 4 miles long.	Do.
Mahaska County, Iowa	5	5 a. m.			1,000	Tornado	No details reported; path 1.5 miles long.	Do.
Manitowoc, Wis.	5				1,500	Hail	Windows and greenhouses damaged.	Do.
Birdsboro, Pa.	6	5 p. m.				Rain, wind, and hail.	1 building blown down, several damaged; grain injured.	Do.
Mifflintown, Pa. (near)	6	5-5:30 p. m.			10,000	Electrical, wind and hail.	Trees uprooted; 2 barns burned.	Do.
Marion County, Kans. (near)	6	5:30 p. m.	2 mi.		7,500	Hail	Chief damage to crops; path 4 miles long.	Do.
Ulster and Dutchess Counties, N. Y.	6	6 p. m.	1,760		10,000	do	Much damage to fruits and tomatoes.	Do.
Evansville, Ind., and vicinity.	6	10:30 p. m.				Thunderstorm, wind, and hail.	Power lines damaged; basements flooded, shade trees broken; 1 barn destroyed, crops injured.	Do.
Clarence, N. Y.	6	P. m.			28,000	Electrical	Clubhouse burned.	Do.
Wayne and Susquehanna Counties, Pa.	6	do				Hail	Considerable crop damage; poultry injured.	Do.
Frazier, Miles City, and Poplar to Brockton, Mont.	8				17,000	Hail and wind	Crops damaged; telephone poles blown down.	Do.
Santa Rosa, N. Mex. (near)	8	P. m.	1,700		1,100	Hail	175 sheep killed.	Do.
Mena, Ark.	8					Wind	Considerable damage to small buildings, roofs, trees, and plate glass windows.	Do.
Georgetown, Md., and vicinity.	9	11 p. m.	8 mi.		50,000	Hail	Greatest damage to corn and tomatoes; path 12 miles long.	Do.
Cumberland, Johnson, Sampson, and Wayne Counties, N. C.	9				150,000	do	Character of damage not reported.	Do.
Morristown, N. Y.	9		3 mi.		37,000	do	All crops hurt; some damage to buildings.	Do.
Delmar, Del.	10	1 a. m.	2 mi.			do	All crops destroyed on some farms; path 6 miles long.	Do.
Ingomar, Mont., and vicinity.	10				1,000	Wind	Character of damage not reported.	Do.
Nashville, Tenn.	10				5,000	do	A glider and plane partially wrecked; 400 telephones out of commission.	Do.
Neillsville, Wis. (near)	10				5,000	Severe squall.	Two silos and other farm buildings damaged.	Do.
Lovell Field, McCallie Lake, Alton Park and St. Elmo, Tenn.	11	9:20 a. m.				Wind	Trees and wires blown down; roof of hangar partially blown off.	Do.
Daviess and Greene Counties, Ind.	11				10,000	do	Crops, buildings, and wires damaged.	Do.
East Hartford, Conn.	11					Wind, hail, and rain.	Heavy damage to tobacco; traffic temporarily halted; streets flooded.	Hartford Times (Conn.).
Evansville, Ind.	11				1,000	Tornado	1 house moved from foundation; others damaged; garage wrecked; trees uprooted.	Official, U. S. Weather Bureau.
Headland, Ala.	11				13,000	Hail	Damage chiefly to crops.	Do.
Logansport and Lucerne, Ind.	11					Wind	Wires blown down; trees and roofs damaged.	Do.
Nashville, Tenn.	13	1:08 a. m.			3,500	Thunderstorm and wind.	Large electric sign completely wrecked; trees and billboards blown down.	Do.
Eastover, S. C. (near)	13	1 p. m.			5,000	Electrical	Residence burned.	Do.
Cedaridge, Colo.	17	3-4 p. m.	2,640		40,000	Hail	Severe damage to crops.	Do.
Tama County, Iowa	19	6 p. m.			5,000	Tornado	Character of damage not reported.	Do.
Chamberland and Kimball, S. Dak.	19	10:30 p. m.			31,000	Hail and wind	Buildings destroyed or damaged; crops ruined; greatest damage in Kimball.	Do.
Huron, S. D. (southeast of)	19	11:55 p. m.			8,000	Wind	Buildings wrecked.	Do.
South Fork, Colo. (near)	19	P. m.				Hail	300 acres of lettuce totally destroyed.	Do.
Marathon, Portage and Waupaca Counties, Wis.	20	4:30 p. m.			15,500	Tornado and thunderstorm.	3 barns wrecked; other buildings damaged; minor crop injury; tornado near Dancy.	Do.
Lincoln, Nebr.	20	4:40 p. m.			2,600	Wind	Several farm buildings damaged; trees uprooted; telephone poles blown down; small hangar wrecked.	Do.
Delaware County, Iowa	20	6 p. m.			8,200	Tornado and wind	Character of damage not reported; path 2 miles long.	Do.
Tama County, Iowa	20	do			8,000	Tornado, wind, and hail.	No details reported.	Do.
McCook, Nebr.	20	6:45-7:05 p. m.				Wind and hail	Hangar demolished and 6 planes wrecked; several buildings damaged; many trees uprooted; corn injured.	Do.
Chazy, N. Y.	20	P. m.				Hail	Considerable damage to field crops, young apple trees and gardens.	Do.
Allentown, Pa.	21	5 p. m.			20,000	Electrical and wind.	Many buildings unroofed.	Do.
Sidney, Ohio (near)	21					Electrical and probably tornado.	2 barns burned; some damage to other property.	Do.
Logansport, Ind.	21				7,500	Wind	Considerable property damage.	Do.
Red Lion to Seaside Park, N. J.	21				75,000	Tornado	Heavy property damage, chiefly at Seaside Park.	Do.
Chester, Bucks, Montgomery, and Northampton Counties, Pa.	22	3-6 p. m.			200,000	Wind, hail, and electrical.	Property of all kinds badly damaged.	Do.
Welmer, Tex.	22	5 p. m.	33		100	Tornado	Small buildings wrecked.	Do.
Burlington to New Brunswick, N. J.	22			2	200,000	Thunderstorm and wind.	Heavy property damage over path about 37 miles long.	Do.
Baltimore, Md.	22			1		do	A few houses unroofed.	Do.
Athens, Tenn.	23					Wind	Trees and outbuildings blown down; several horses killed.	Do.
Omaha, Wash.	23				8,000	Hail	Orchards injured.	Do.
Shawano and Oconto Counties, Wis.	24	3 p. m.			20,000	do	Windows broken; poultry killed, crops beaten.	Do.
New Danville, Pa., and vicinity.	24	3-4 p. m.			60,000	Wind	Property of various kinds damaged.	Do.

¹ "Mi." signifies miles instead of yards.

Severe local storms, July, 1930—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Pena Blanca, N. Mex.	24	P. m.	1,760		\$10,000	Cloudburst	12 homes demolished; land covered with sand	Official, U. S. Weather Bureau.
Rockland and Arbon Valley, Power County, Idaho.	25	3-4 p. m.	2-3 mi.		50,000	Hail	Large wheat fields completely ruined	Do.
Macon, Ga.	25	3:33 p. m.				Thunderstorm, wind, and rain.	Trees uprooted; telephone poles blown down; chimneys overturned. Some damage by lightning.	Do.
Benton and Buchanan Counties, Iowa.	25	6 p. m.			73,000	Wind and hail	Character of damage not reported	Do.
Story County, Iowa.	26	9:30 a. m.	1,760		500	Tornado	No details reported	Do.
Boone, Hancock, and Kosuth Counties, Iowa.	26				70,500	Wind and hail	do	Do.
Coddington, Wis.	27	1:30 a. m.	880		10,000	Probably a tornado.	5 barns wrecked; other buildings damaged	Do.
Wright and Ida Counties, Iowa.	27	7 p. m.			12,000	Wind and hail	No details reported	Do.
Stoughton and Oregon, Wis.	27	11 p. m.	4 mi.		30,000	Hail	Chief damage to crops; path 9 miles long	Do.
Appelton, Wis. (near)	27			2		Thundersquall	Power lines blown down	Do.
Bruce to Ladysmith, Wis.	27				100,000	Thunderstorm and wind.	Many barns and silos partially or completely wrecked; other buildings damaged.	Do.
Ellsworth, Wis. (near)	27		6 mi.		30,000	Squall.	A number of barns and silos demolished.	Do.
Rice Lake, Wis.	27			1		Thunderstorm	Electric wires blown down.	Do.
Wausau, Wis., and vicinity.	27				10,000	Wind and rain	Public utilities companies suffer losses; several barns blown down and roofs damaged.	Do.
Trenton, S. C., and vicinity.	27				7,000	Electrical.	Home burned; mule killed.	Do.
Dunkirk, N. Y.	28	P. m.		16		Thundersquall.	Steamer George W. Whelan sank, drowning part of crew.	Do.
Greenville, S. C.	28				10,000	Thunderstorm	Duke Power Plant damaged.	Do.
Rock Hill, S. C. (near)	28	P. m.			3,000	Electrical.	Barn and contents burned; 6 mules killed.	Do.
Greenville, Miss.	29	4 p. m.	220		5,000	Thundersquall.	Character of damage not reported.	Do.
Greenville, Tex. (near)	29	5 p. m.				Tornado	Boathouses, bathhouses and outbuildings overturned or damaged.	Do.
Dandridge and Murfreesboro, Tenn.	29					Wind	Trees and chimneys blown over; crops injured.	Do.
Pittsylvania County, Pa. (north-central).	29					Hail	Crops destroyed over small area.	Do.
Groveton, Tex. (near)	30	6 p. m.	2,640			Wind	Roofs torn off; crops badly damaged.	Do.
Valley View, Tex.	30	do				Wind and hail	Outbuildings and crops damaged.	Do.
Wichita Falls, Tex.	30	6:30 p. m.	332			Wind squall	2 houses unroofed; small buildings damaged; poultry killed.	Do.
Diboll, Tex.	30	10 p. m.				Wind	Considerable damage to buildings; corn hurt.	Do.
LaSalle and Grant Parishes, La.	31	3-5 p. m.	2 mi.		60,000	Severe thundersquall, tornadoic characteristics at times.	A number of buildings blown down; timber and oil derricks damaged; path 20 miles long.	

RIVERS AND FLOODS

By R. E. SPENCER

As part of his report on the results of the Red River flood of May, 1930, Mr. R. A. Dyke, of the Weather Bureau office at New Orleans, La., submits the following tabulation from a report of the New Orleans office of the Bureau of Agricultural Economics, United States Department of Agriculture. (The figures include the Louisiana acreage within both the Shreveport and the New Orleans river districts):

Crop acreage destroyed by flood waters in the Red River Valley in Louisiana, in May, 1930, acreage subsequently replanted, and percent replanted

Crop	Acreage destroyed by flood	Acreage replanted	Per cent replanted
Cotton	95,400	58,085	60.9
Corn	34,335	43,948	130.0
Oats	1,360	0	0.0
Tame hay	9,783	7,050	72.1
Irish potatoes	450	80	17.8
Sweet potatoes	700	989	141.3
Peanuts	140	25	17.9
Sugarcane	520	0	0.0
Truck crops	375	340	90.7
Total	143,063	110,517	77.25

Number of head of livestock destroyed by the flood: Horses, 8; mules, 5; cattle, 112; swine, 215; sheep, 100; goats, 475; poultry, 580. Nearly all the cattle drowned were in Caddo Parish; nearly half of the swine were drowned in Avoyelles Parish; all the sheep and nearly all the goats were drowned in Natchitoches Parish.

The crop acreage destroyed is divided by parishes as follows:

Bossier	6,460	Winn	7,330
Caddo	26,460	Natchitoches	55,005
De Soto	3,890	Avoyelles	1,410
Red River	33,175	Grant	6,300
Webster	1,025	Rapides	1,865
Bienville	143		

Mr. Dyke's report continues—

Approximately half of the inundated crop acreage of 33,920 in Caddo and Bossier Parishes is in the Shreveport river district. Confining the estimated losses to the New Orleans district, the total agricultural loss, exclusive of farm equipment, approximated \$1,235,000 for crops and \$6,000 for livestock. Cotton and corn losses are estimated at \$1,073,600, with oats, hay, potatoes, sweet potatoes, sugar cane, and truck making up the remainder of the crop losses.

There were also some losses of household goods, unestimated. There was some damage to highways, and highway traffic in much of the valley was interrupted for a few weeks. More than 10,000 persons were rendered temporarily homeless, about 7,500 being cared for in refugee camps. Others, remaining in or near their homes, were supplied with provisions by boat. The loss of life, amounting to about nine persons in the State, in most cases was only indirectly connected with the flood, occurring mainly on bayous in the area, where efforts were being made to remove livestock or to travel by boat.

An estimate of the money value of the Weather Bureau flood forecasts is impracticable from the data available. But it is known that general heed was given to the warnings and the active efforts made to save livestock and other property resulted in large savings.

Excepting that referred to in the paper immediately following this report, no flood damage of importance is reported for July. A discussion of the effect of the drought upon stream stages will appear in the August